NEMAIS Training Overview

ERP Definition

- Enterprise Resource Planning (ERP)
  - Automates and integrates business processes
  - Shares common data and processes across the enterprise
  - Provides consistent and timely information for decision making and performance measurement
  - Produces and accesses data in a near real-time environment

SAP Definition

- Systems Application Product (SAP)

Objectives

- Provide a basic understanding of ERP
- Provide a basic understanding of S-A-P
- Provide a basic understanding of the NEMAIS Solution
- Describe the benefits of the NEMAIS ERP Solution
- Provide a basic understanding of NEMAIS vision for incorporation of Technical Documentation

NEMAIS Program Description

The NEMAIS program is a joint NAVSEA and Fleet initiative to implement an ERP solution improving maintenance and modernization processes aboard ship and in shore industrial activities. The program is phased with initial focus on fleet shore intermediate maintenance activities. Subsequent deployments will include 28 shore activities and all ships and submarines.

Scope

- Number of Users: 28,000 personnel in Intermediate and Depot maintenance activities, 10,500 work centers afloat (over 200,000 sailors)
- Over 140 legacy software systems ultimately replaced or incorporated into solution
- Phasing
  - Phase A: Mid Atlantic Regional Maintenance (3000 people)
  - Phase B: Norfolk Naval Shipyard (8000 people)
  - Phase C: Replace national legacy software systems
  - Phase D: Deploy to 28 shore based industrial facilities
  - Phase E: Supervisor of Shipbuilding sites
  - Phase F: All Navy Ships

NEMAIS Status

- SIMA/RSG Norfolk on ERP 25 May 02
  - 3000 Navy personnel
  - All processes necessary to run SIMA
- Planning underway to deploy to all SIMAs in FY 03/04
- Afloat planning underway
  - Partnered with SPAWAR to transition NTCSS afloat to ERP
  - Partnered with NAVSUP for common supply processes
- Depot plan in development

CNO Priorities

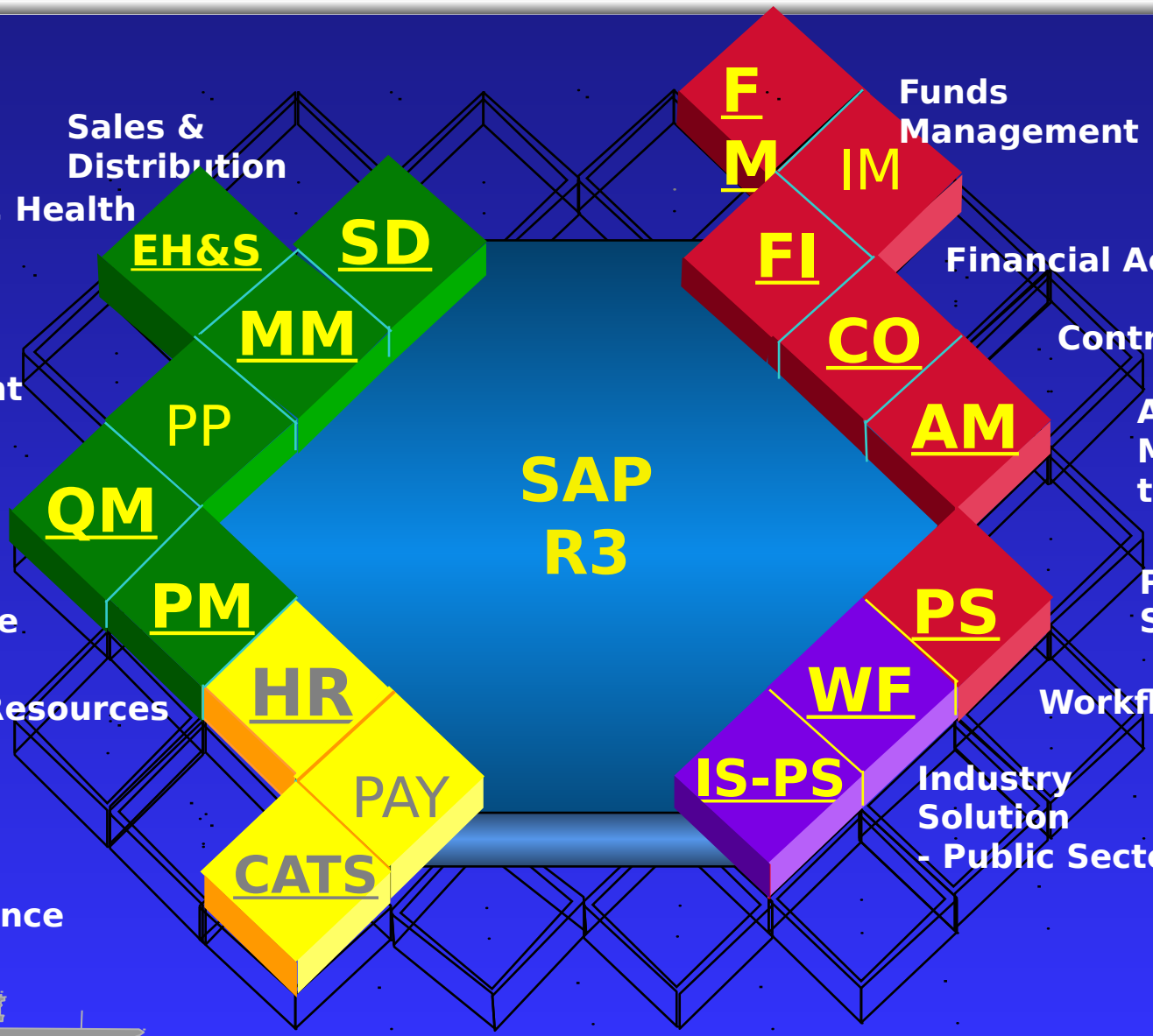
CNO Priorities :

- **Manpower**
- **Current Readiness**
- **Future Readiness**
- **Quality of Service**
- **Navy-wide Alignment**

Achieve By. . .

- Providing Timely and Rapid Access to Information
- Supporting Total Asset Visibility
- Enhancing the Planning & Scheduling Process
- Providing Better Decision Making Tools
- Minimizing & Simplifying Data Collection
- Utilizing Common Processes Across the Enterprise

The SAP Backbone



Funds Management

Financial Accounting

Controlling

Asset Management

Project Systems

Workflow

Industry Solution - Public Sector

Sales & Distribution

Environment, Health & Safety

Supply & Materials Management

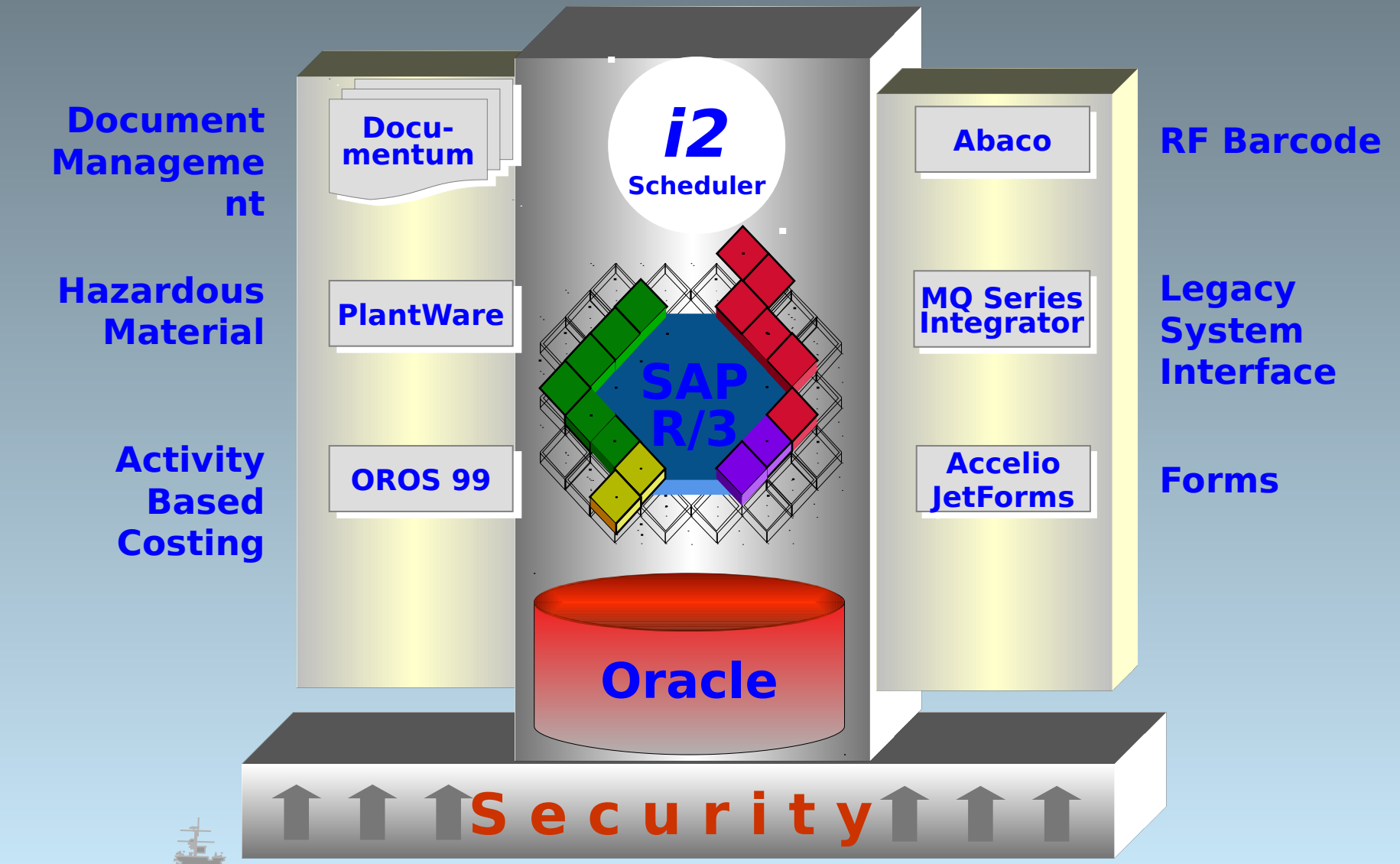
Quality Management

Plant Maintenance

Human Resources

Time & Attendance

The Integrated Solution



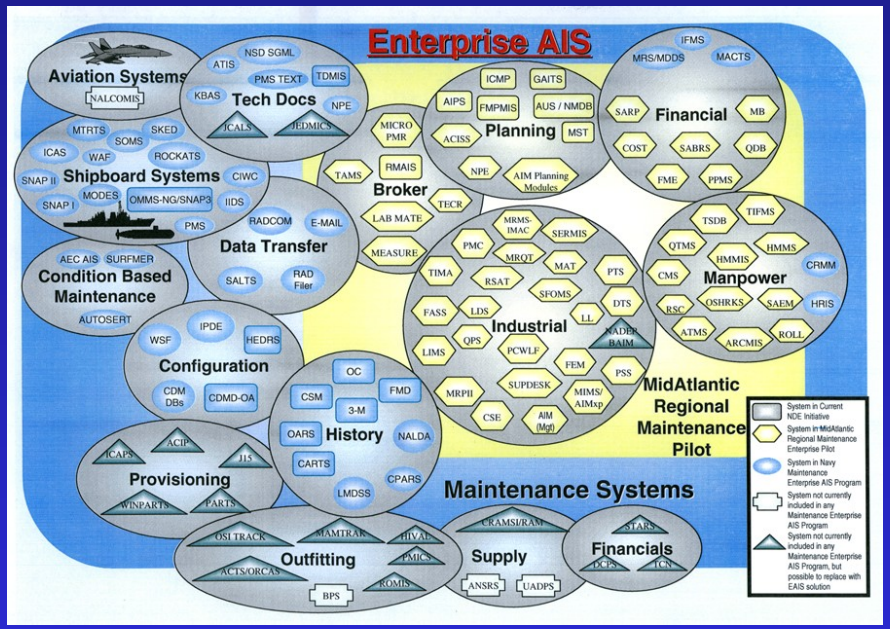
What is the Problem?

- Operational commitments
  - We have the same operational commitment to perform with fewer ships, fewer people and less money.
- Business drivers
  - Lower budgets
  - Mandated savings
  - Increased workload
  - Fewer ships and personnel

What is the Problem?

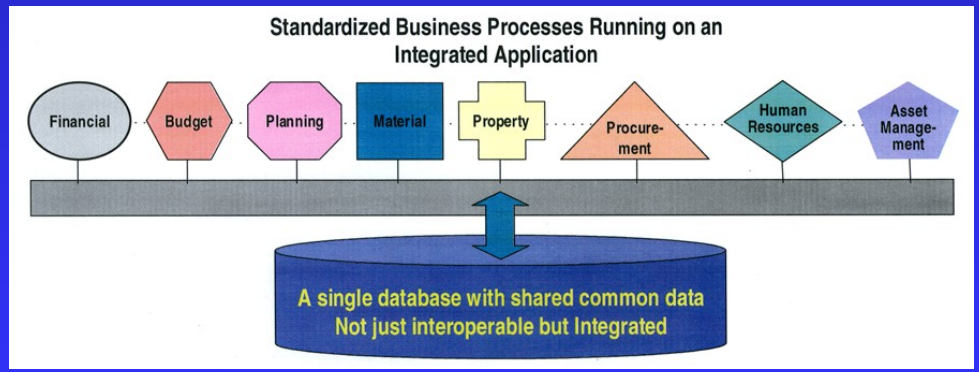
Functionally independent, redundant, and inefficient processes lose focus on the customer's product, and

NEMAIS ERP Solution

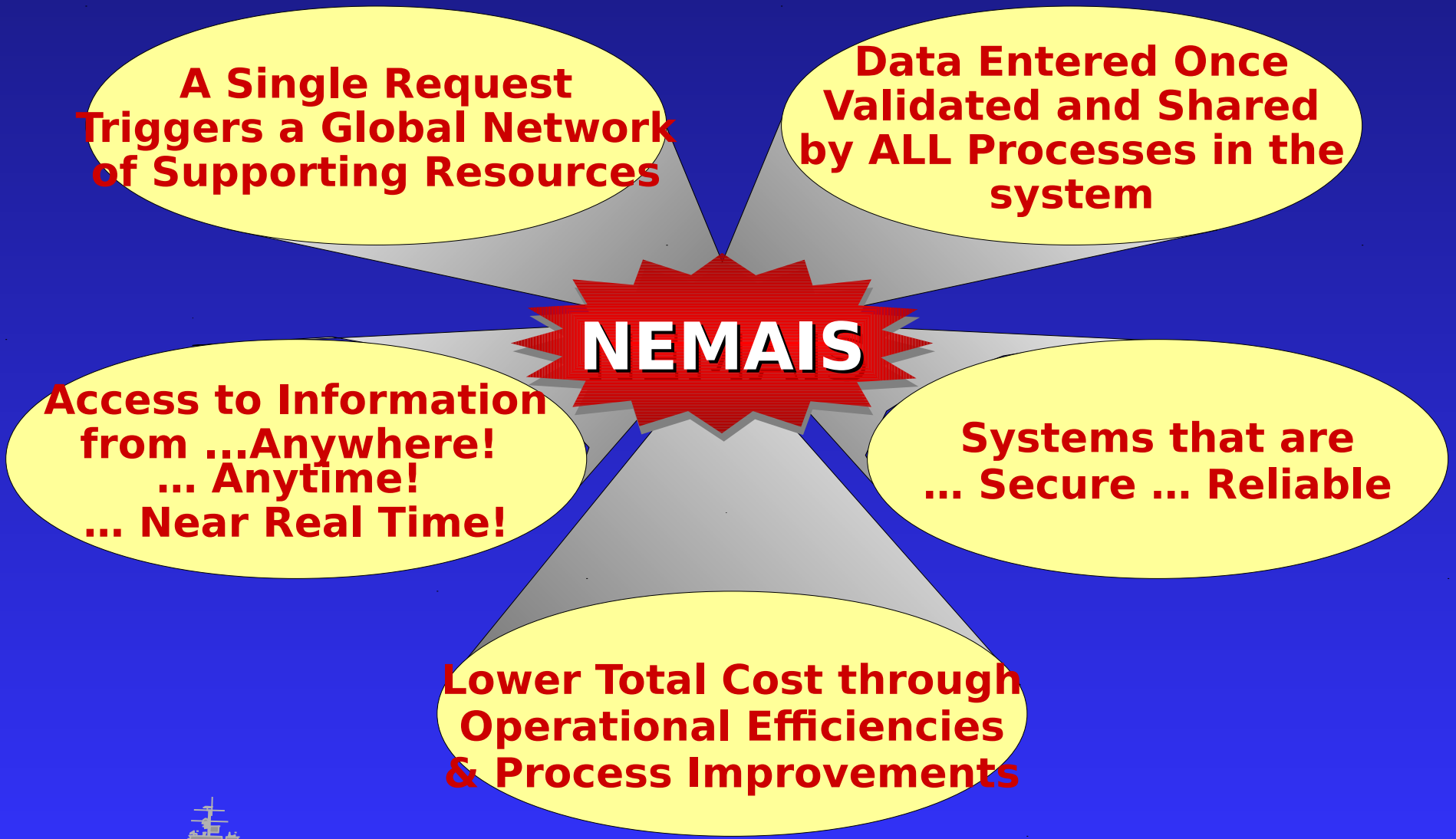


What We Have Today

What ERP Provides



Summary of the Solution

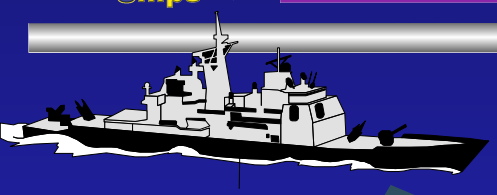

A Single Request Triggers a Global Network of Supporting Resources
Data Entered Once Validated and Shared by ALL Processes in the system
NEMAIS
Access to Information from ...Anywhere! ... Anytime! ... Near Real Time!
Systems that are ... Secure ... Reliable
Lower Total Cost through Operational Efficiencies & Process Improvements

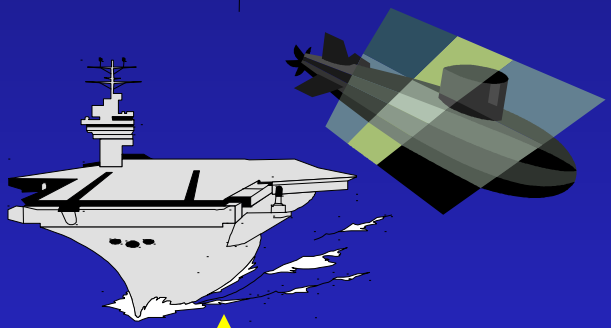
Navy Enterprise Team Ships

Technical Documentation

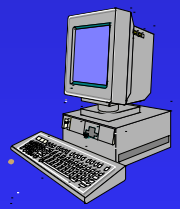
Data Gathering → Engineering & Planning

Today's Operating Environment





Work Requests



Extensive Internet Resources

Hard Copy

Work Package

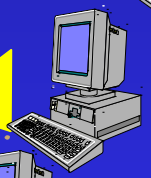
IETM's

CDMD-OA

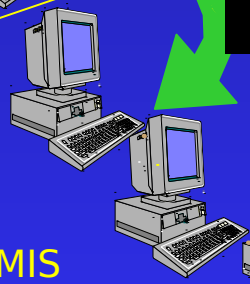
Planner/Engineer

TLMS

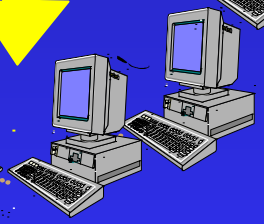
EOSS



JEDMICS



ATIS

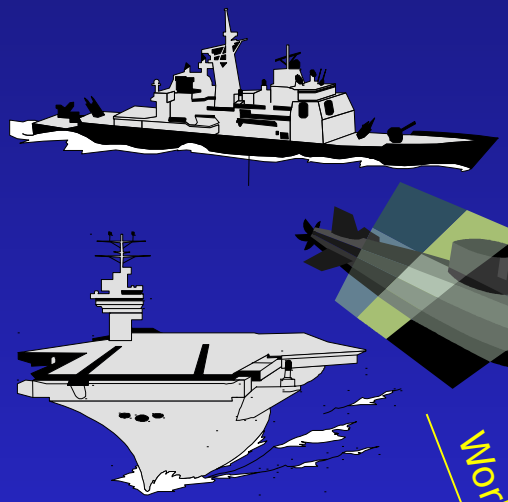


TDMIS

MEDALS

JCALS

End State Vision

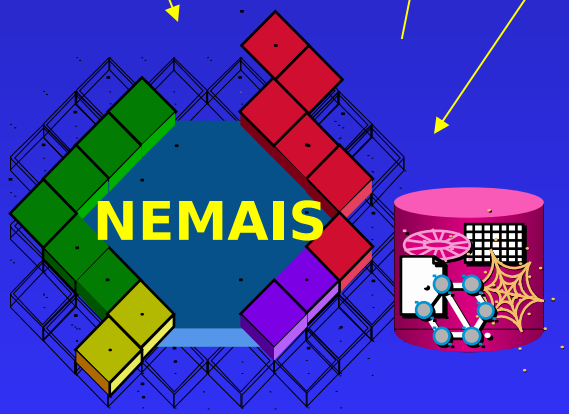


Work Package

Logistic Support

Craftsman

Work Request



Work Package Data

Planner/Engine

How are Technical Documents viewed

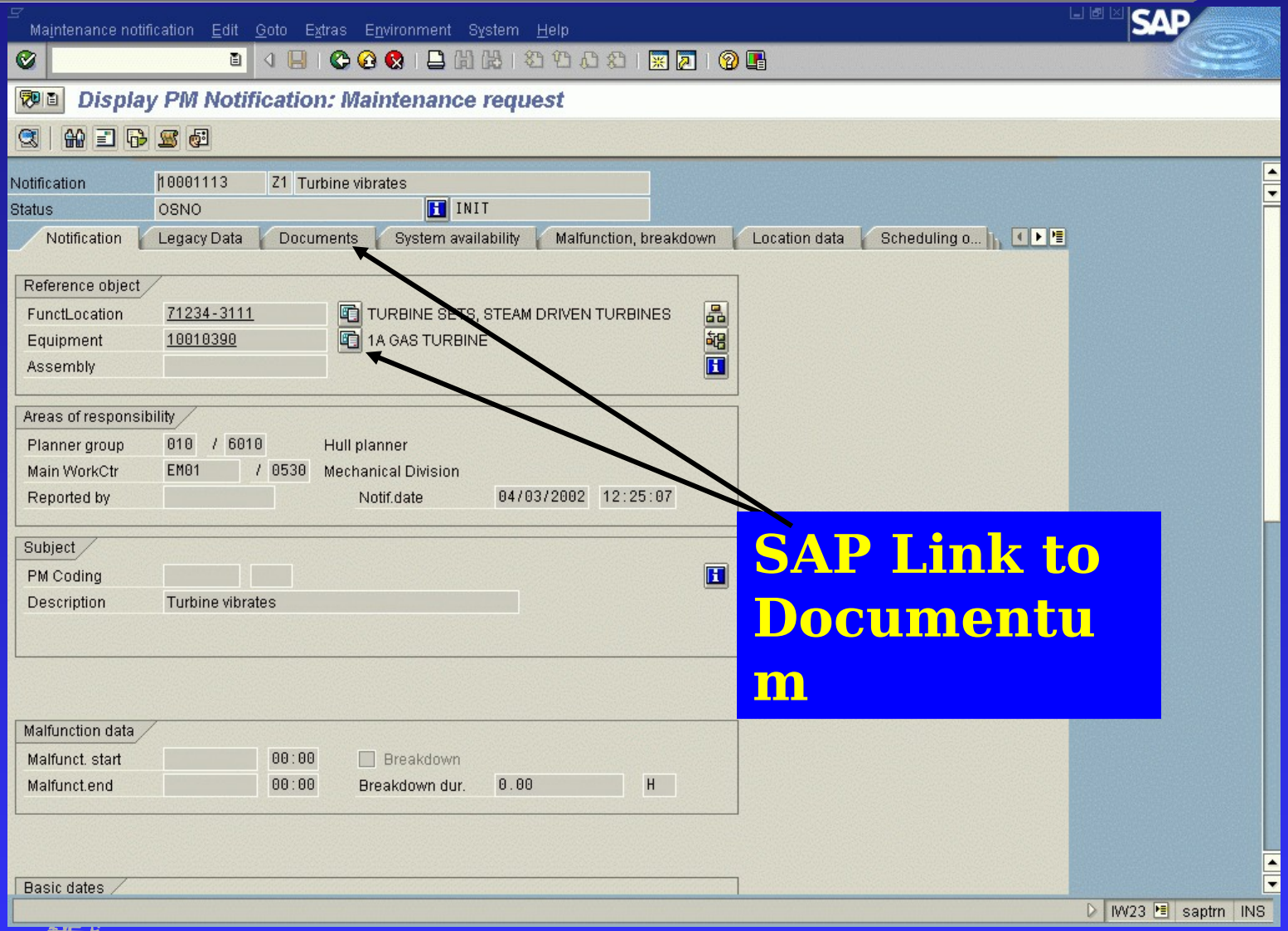
Document links reside in SAP and connect the user to the Documentum repository.

SAP objects are linked to Documentum Folders

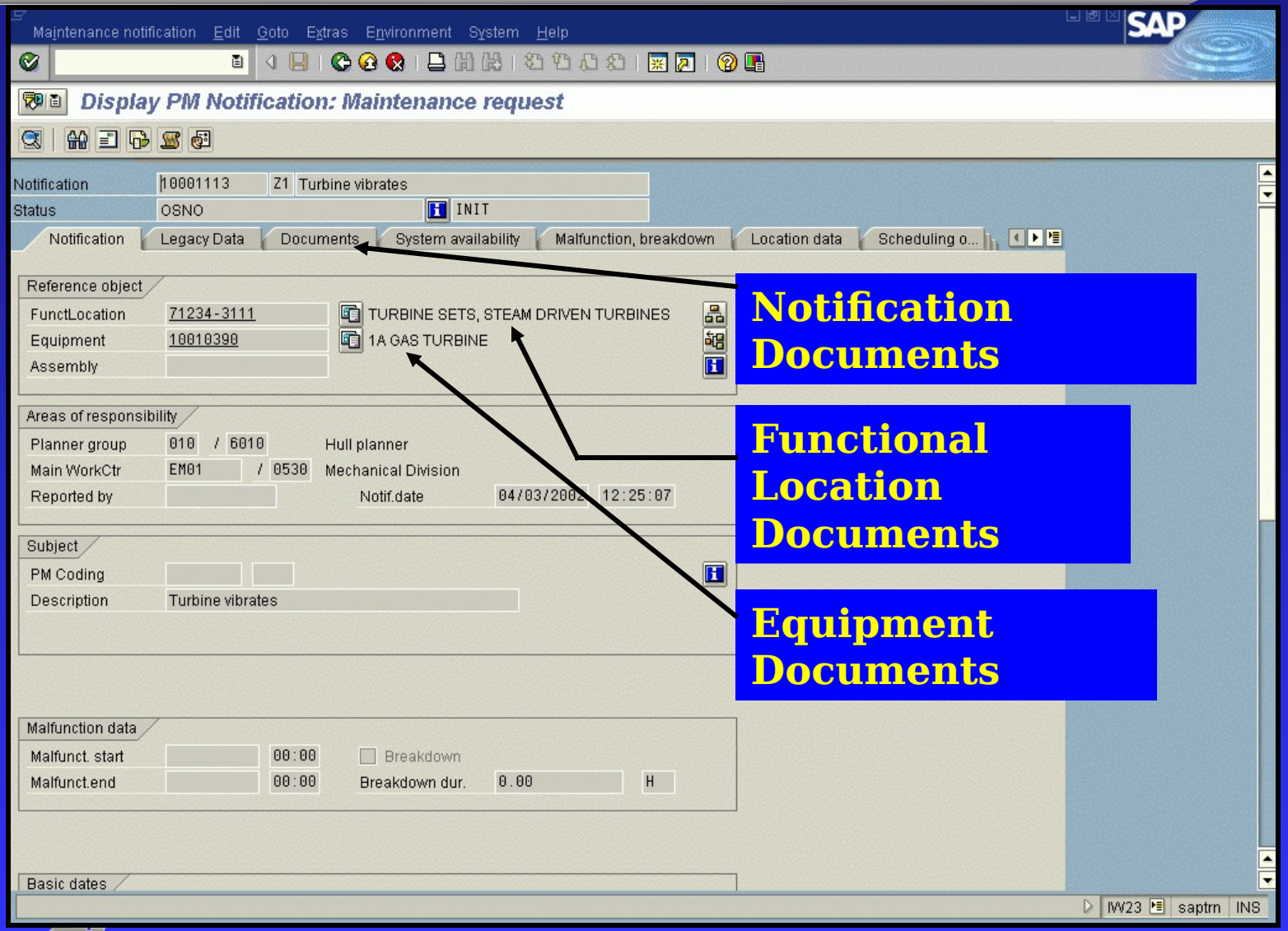
SAP objects	Documentum objects
Equipment	Equipment Folder
Material	Material Folder
Vendor	Vendor Folder
Purchase Order	Purchase Order Folder
Functional Location	Functional Location Folder
Notification	Notification Folder
Inspection Method	Inspection Method Folder

Documents for the SAP objects are placed in the folders

Maintenance Notification in SAP


Maintenance notification Edit Goto Extras Environment System Help
SAP
Display PM Notification: Maintenance request
Notification 10001113 Z1 Turbine vibrates
Status OSNO INIT
Notification Legacy Data Documents System availability Malfunction, breakdown Location data Scheduling o...
Reference object
FunctLocation 71234-3111 TURBINE SETS, STEAM DRIVEN TURBINES
Equipment 10010390 1A GAS TURBINE
Assembly
Areas of responsibility
Planner group 010 / 6010 Hull planner
Main WorkCtr EM01 / 0530 Mechanical Division
Reported by Notif.date 04/03/2002 12:25:07
Subject
PM Coding
Description Turbine vibrates
Malfunction data
Malfunct. start 00:00 Breakdown
Malfunct.end 00:00 Breakdown dur. 0.00 H
Basic dates
IW23 saptrn INS
SAP Link to Documentu m

Maintenance Notification in SAP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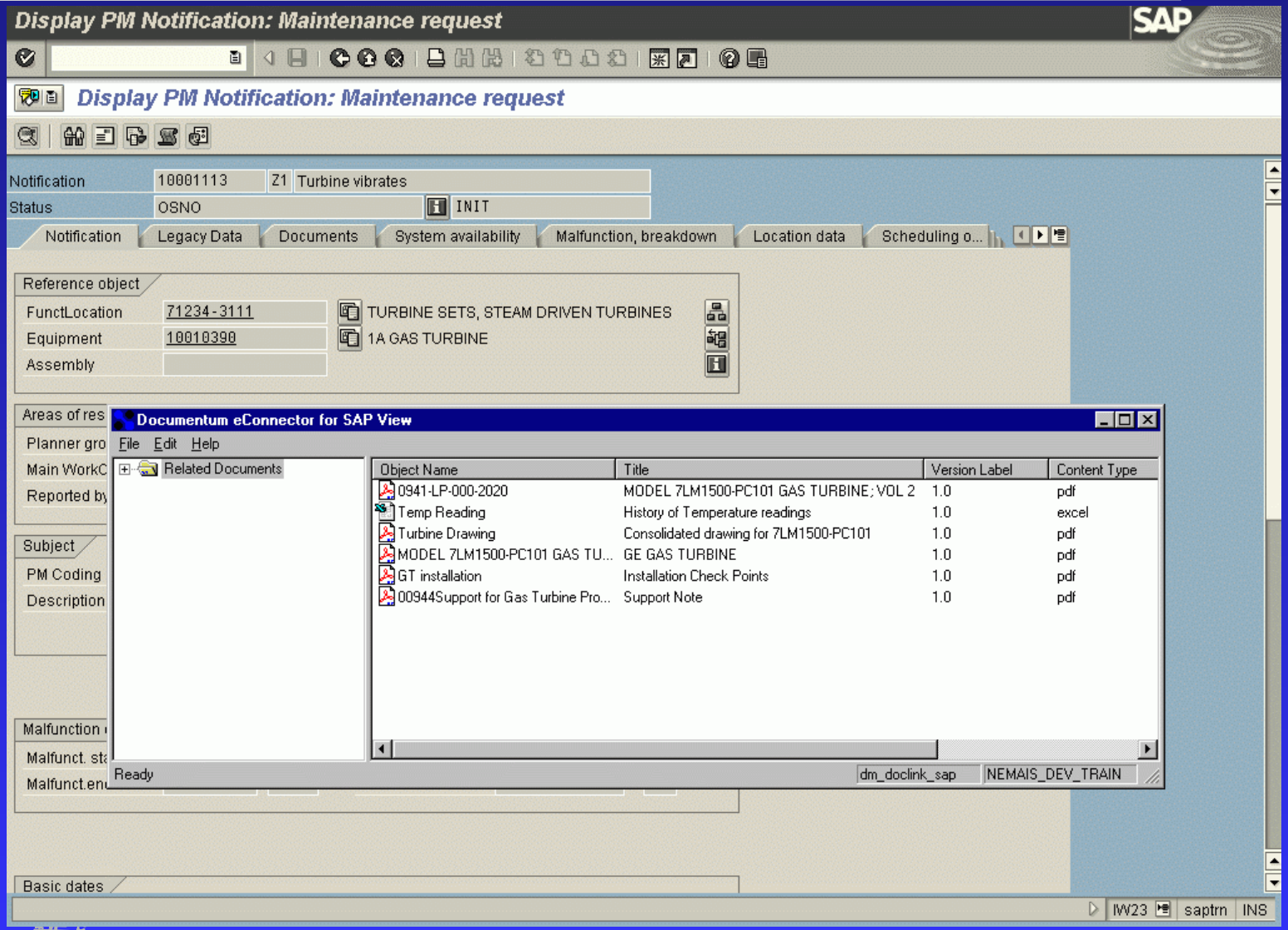
Basic dates
IW23 saptrn INS
Notification Documents
Functional Location Documents
Equipment Documents

Documents attached to the Equipment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Assembly
Areas of res
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Subject
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Description
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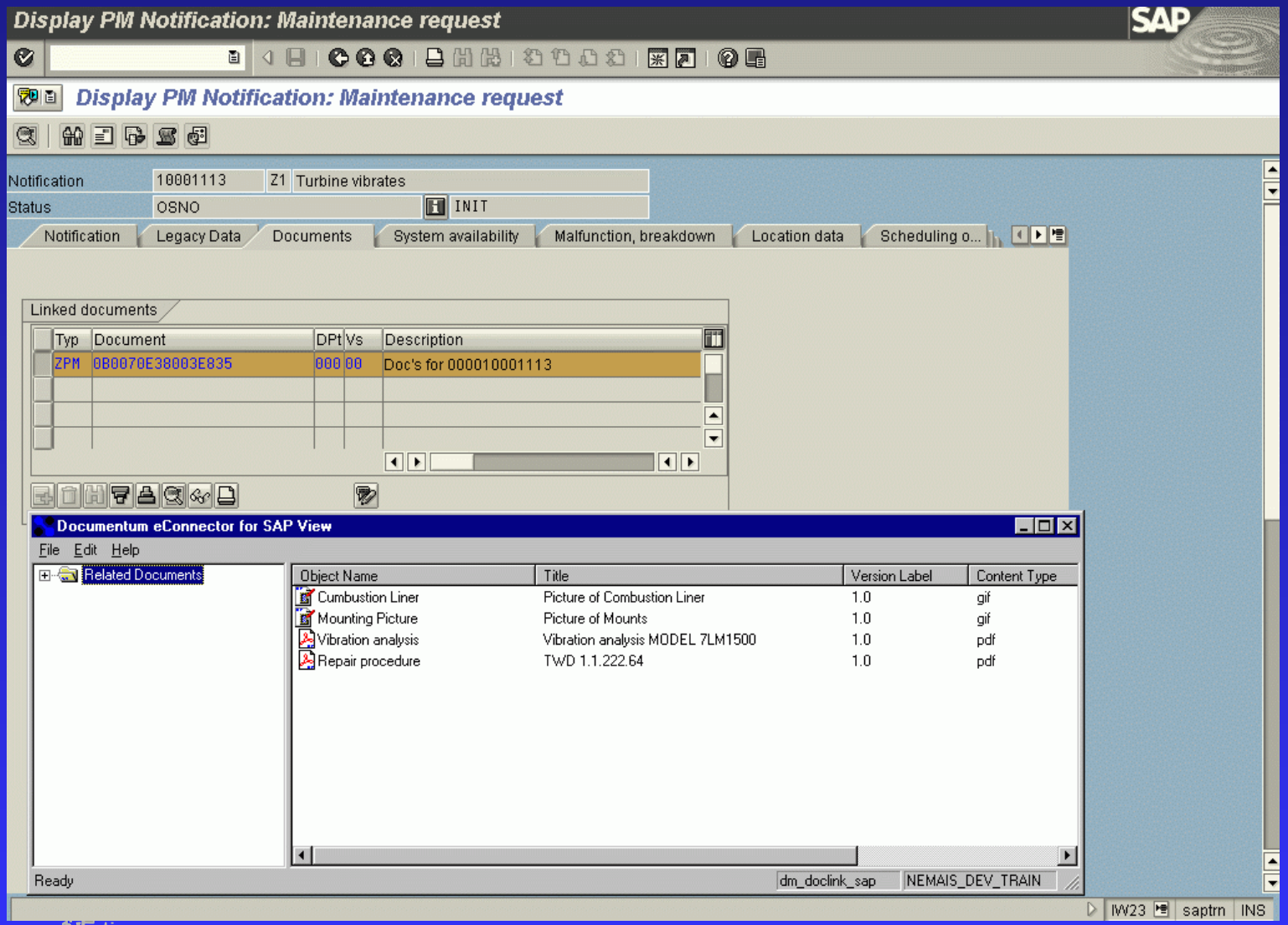
Basic dates
Documentum eConnector for SAP View
File Edit Help
Related Documents
Object Name | Title | Version Label | Content Type
0941-LP-000-2020 | MODEL 7LM1500-PC101 GAS TURBINE; VOL 2 | 1.0 | pdf
Temp Reading | History of Temperature readings | 1.0 | excel
Turbine Drawing | Consolidated drawing for 7LM1500-PC101 | 1.0 | pdf
MODEL 7LM1500-PC101 GAS TU... | GE GAS TURBINE | 1.0 | pdf
GT installation | Installation Check Points | 1.0 | pdf
00944Support for Gas Turbine Pro... | Support Note | 1.0 | pdf
Ready
dm_doclink_sap
NEMAIS_DEV_TRAIN
IW23 saptrn INS

Documents attached to the Notification



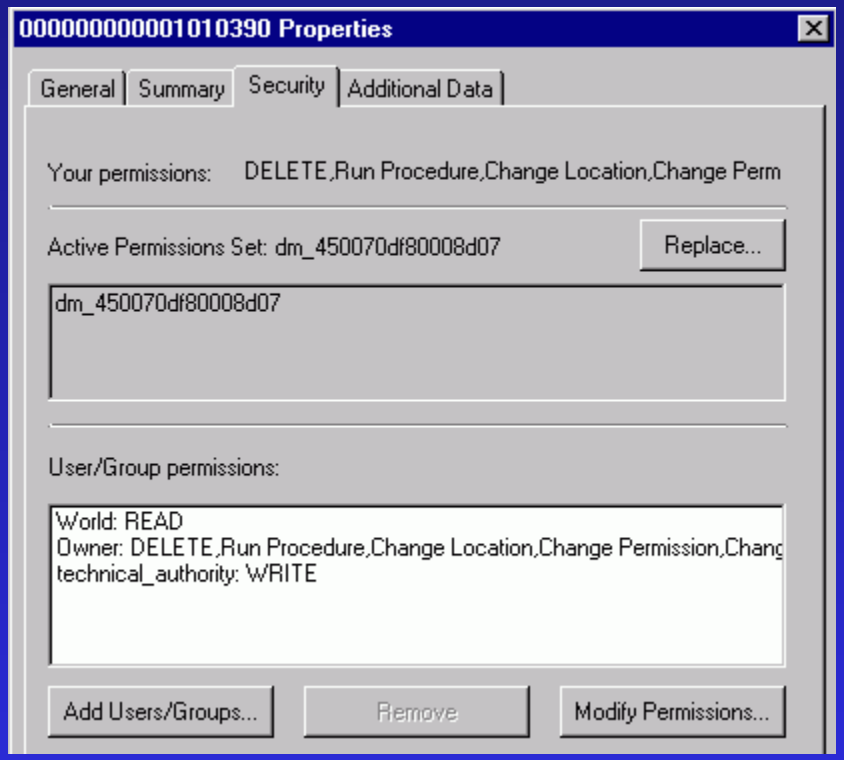
General Information

- Documents may be originals or links.
- Document Security is based on SAP groups, roles and Distribution statement.
- Documents are viewed from SAP, they cannot be edited.
- Only the current version, or all versions are displayed. This is configured by document type.
- Documents can be renditions, xml to text, pdf, html etc.

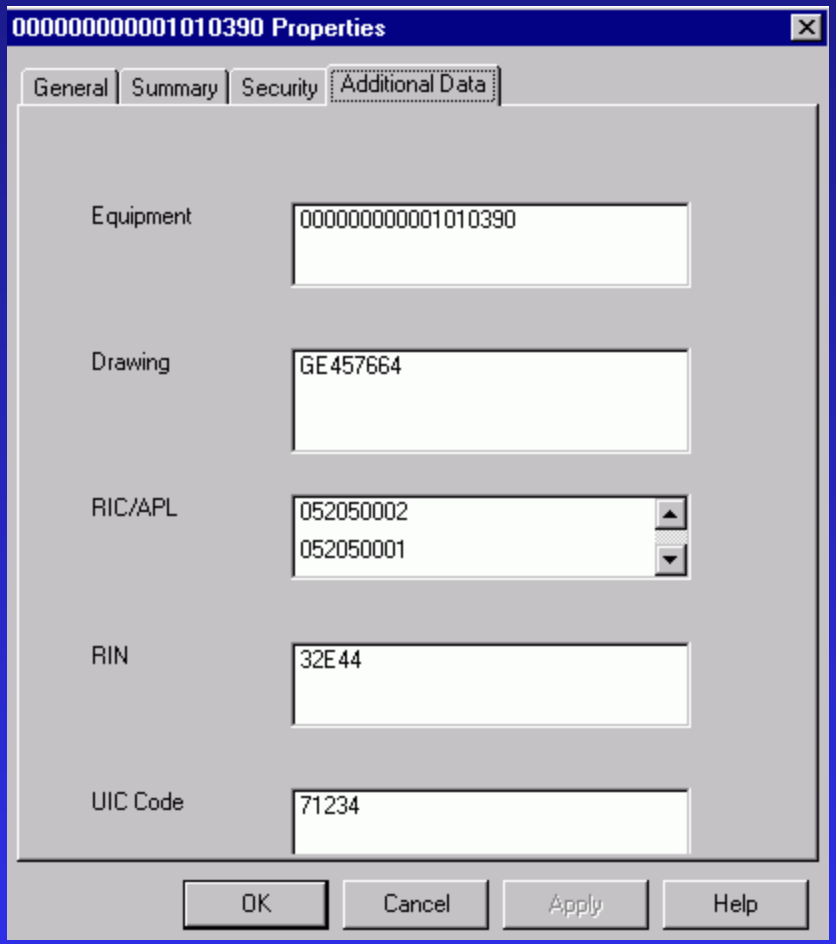
General Information

- Contributors or managers of documents do not need SAP to manage their documents.
- Contributors control security, and where the document is linked in SAP with attributes.
- Documents that are data loaded will use APL/RIC number and ships hull to link back to SAP.

Examples

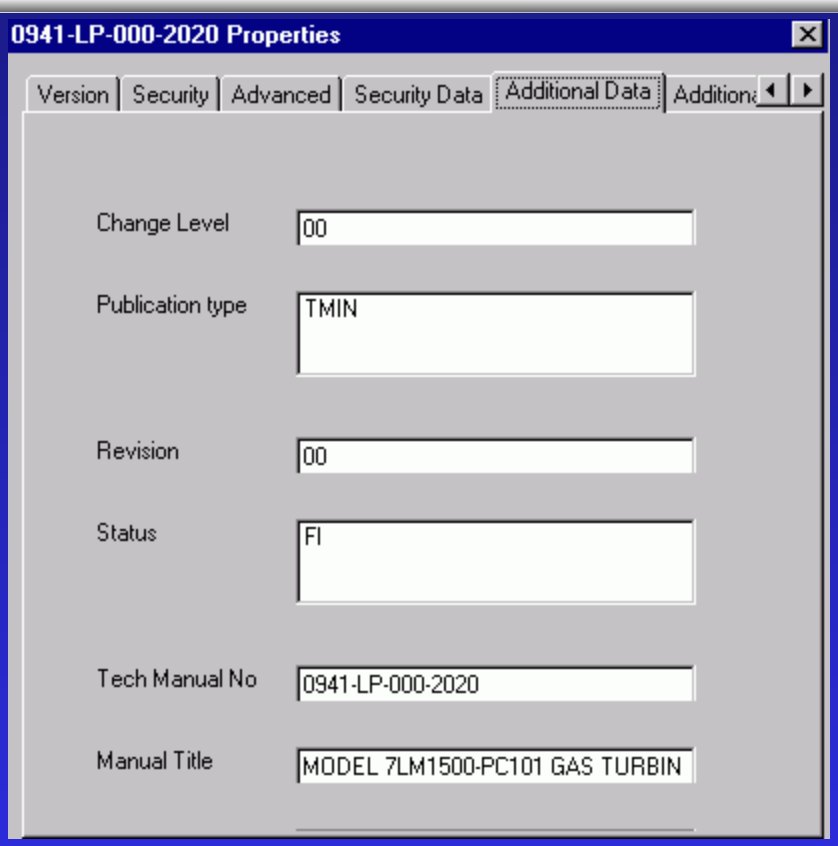


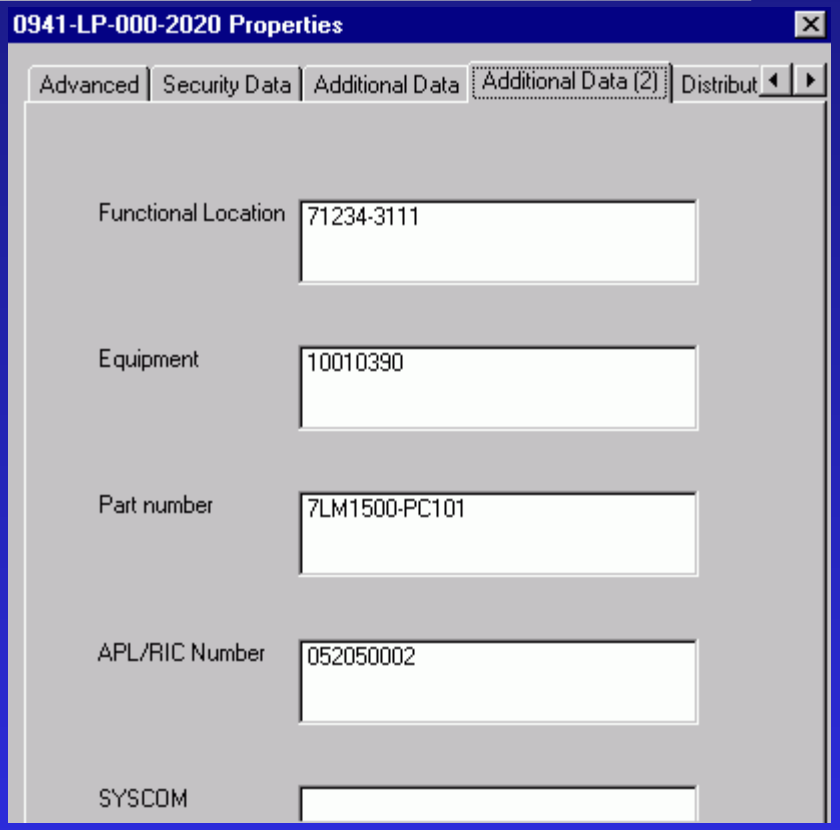
Example of a documents permissions.

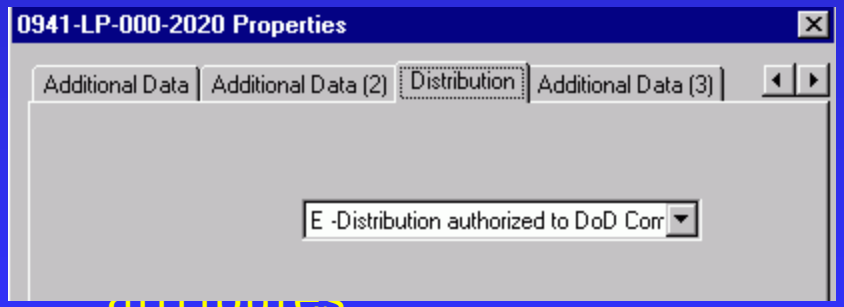


Example of a linked folder attributes

Examples



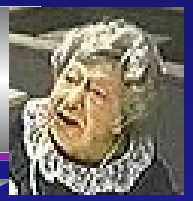




Example of a documents attributes

attributes

Where is the data today?



Planner/ Engineer

Work Package

CDMD-OA

Extensive Internet Resources

IETM's

JEDMICS

TLMS

EOSS

TDMIS

Shipyards Warfare Centers etc.

JCALS

Bubba's File Drawer

MEDALS

ATIS

End State Vision

Planner/
Engineer

NEMAIS

Work Package

Summary

Today		NEMAIS
• Verification/Validation of all technical content	→	• Data verification and validation is automated and “built-in”
• Multiple log-on procedures, user names and passwords	→	• Single point of entry (One User ID) for all personnel
• Relies on “As Built” data as a baseline	→	• Organic configuration control of equipment and components
• Multiple systems of record	→	• “One-Stop-Shop” for technical documentation